

Structured Quoted Content

IETF


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What

- Quoted content is common in email messages
- Already loosely structured (by convention)
 - Attribution line
 - Use of '>' for plaintext
 - Use of blockquote for HTML
- Structure is linked to presentation

So what?

- Presentation controlled by sender
 - Formatting
 - Localization
 - Mismatch for displayed addresses/names
 - Etc.
- Easy to lose track of context, especially for inline replies
- Expensive to determine quoted sections (e.g. to remove/collapse, before rendering or for further automated processing)

12:43  4 Messages
Summer Trip to Ja... ^ v

Quick thoughts on a couple parts of the plan:

El lun, 28 jul 2025 a la(s) 10:37 a.m., Abigail Rogers (arogers2025@hotmail.com) escribió:

Hey guys,

That sounds *awesome*. Thanks again for putting this together, and can't wait to see you both again!

By the way, did you guys end up making it out to Peru? I so would've loved to come, but you know, school and all.


- Abi

发件人: james.bq93171.paid@icloud.com <james.bq93171.paid@icloud.com>
发送时间: 2025年7月28日 17:09
收件人: Abi Rogers <arogers2025@hotmail.com>; Leon Gordon <legordon2025@gmail.com>
主题: Summer Trip to Japan – Let's Make It Happen!

Hi Abi and Leon,

I hope you're both doing well! I've been thinking—it's about time we planned an epic trip together, and Japan feels like the perfect destination for this summer. I've been thinking about it for a while and see if you want to go and see if you want to go up for it.



5:20  4 Messages
Summer Trip to Ja... ^ v

Glad to see you two as excited about this trip as I am!

DEFAULT_SIGNATURE_IPHONE

On Jul 28, 2025, at 10:39 AM, Leonard Gordon <legordon2025@gmail.com> wrote:

Show Quoted Content

putting this together, and can't wait to see you both again!

Same!

By the way, did you guys end up making it out to Peru? I so would've loved to come, but you know, school and all.

Show Quoted Content

here?

Absolutely

Maybe we do:

- **1 night in Hakone** to soak in an onsen and relax at a ryokan,



nights around... is supposed to... incredible views of Mt. Fuji and feels a

Examples

On Thu 05/Feb/2026 17:29:00 +0100 Murray S. Kucherawy wrote:

On Tue, Feb 3, 2026 at 4:55 AM Alessandro Vesely <vesely@tana.it> wrote:

What are those uncontrolled elements, beyond mailing lists and

See More

of lifting, and the idea of "maintaining a list" even with automation will approach an acceptable level of reliability only at great cost which most non-giant operators can't afford.

Oh, I see. I was trying to avoid the details. In reality, the current subscription management system, the so-called COI, transacts each subscription individually, completely automatically, but without involving the

Somewhat agreed. I've gotten irritated responses when I tried to tell list operators how to run their infrastructure :-/

Is there any evidence that there would be momentum if ARC development were to be given a venue? I don't think I've seen any, but maybe you're privy to other conversations.

As you know, the draft I proposed was rejected because "the working group is winding down with the bis documents moving through the IESG process". However, if any other proposal ever attempts to solve the mailing list problem, it will face the same scenario. Yes, until DKIM2. But this process should not be a means of burning bridges in order to make its arrival unavoidable or more desirable. It should produce an honest statement of the situation.

On that last sentence, I agree.

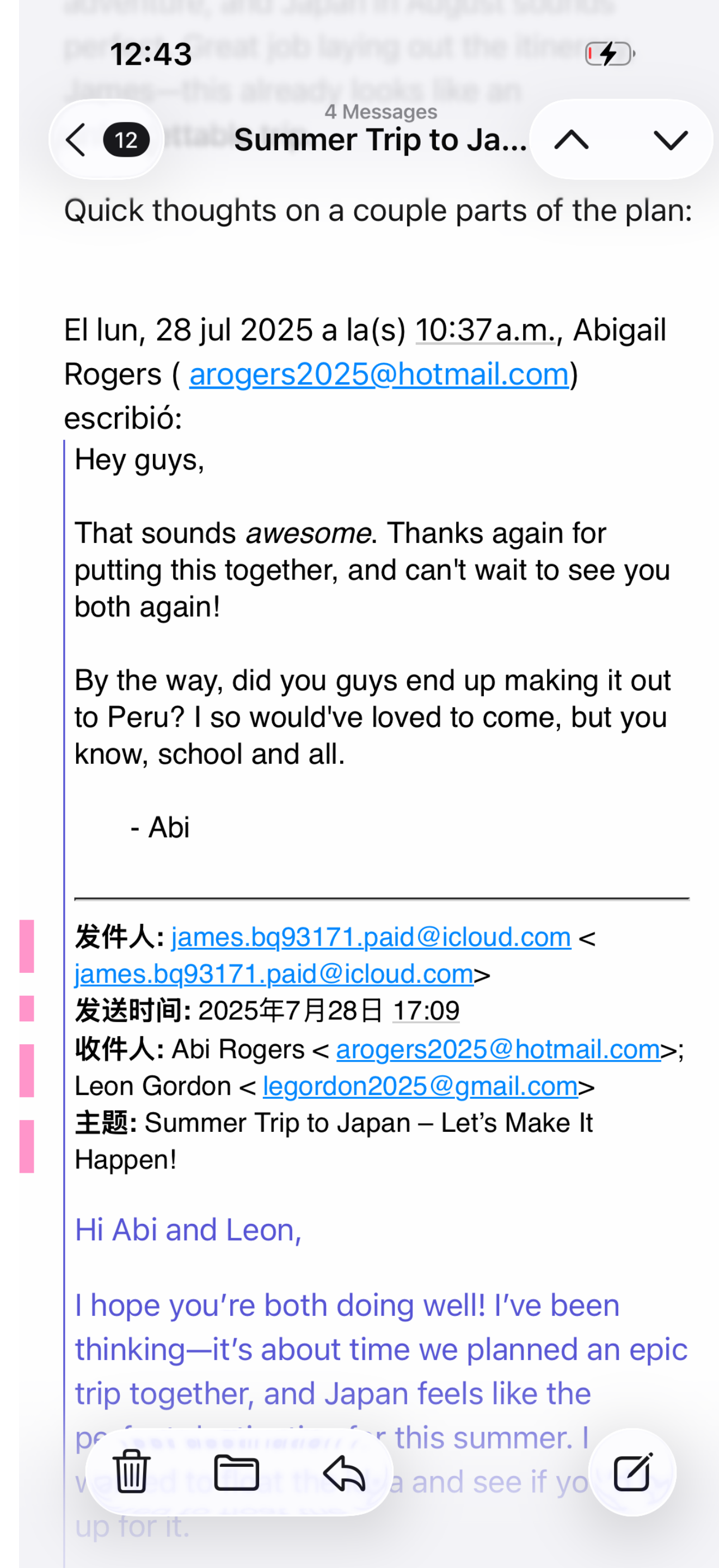
Thank you.

Structured Quoted Content

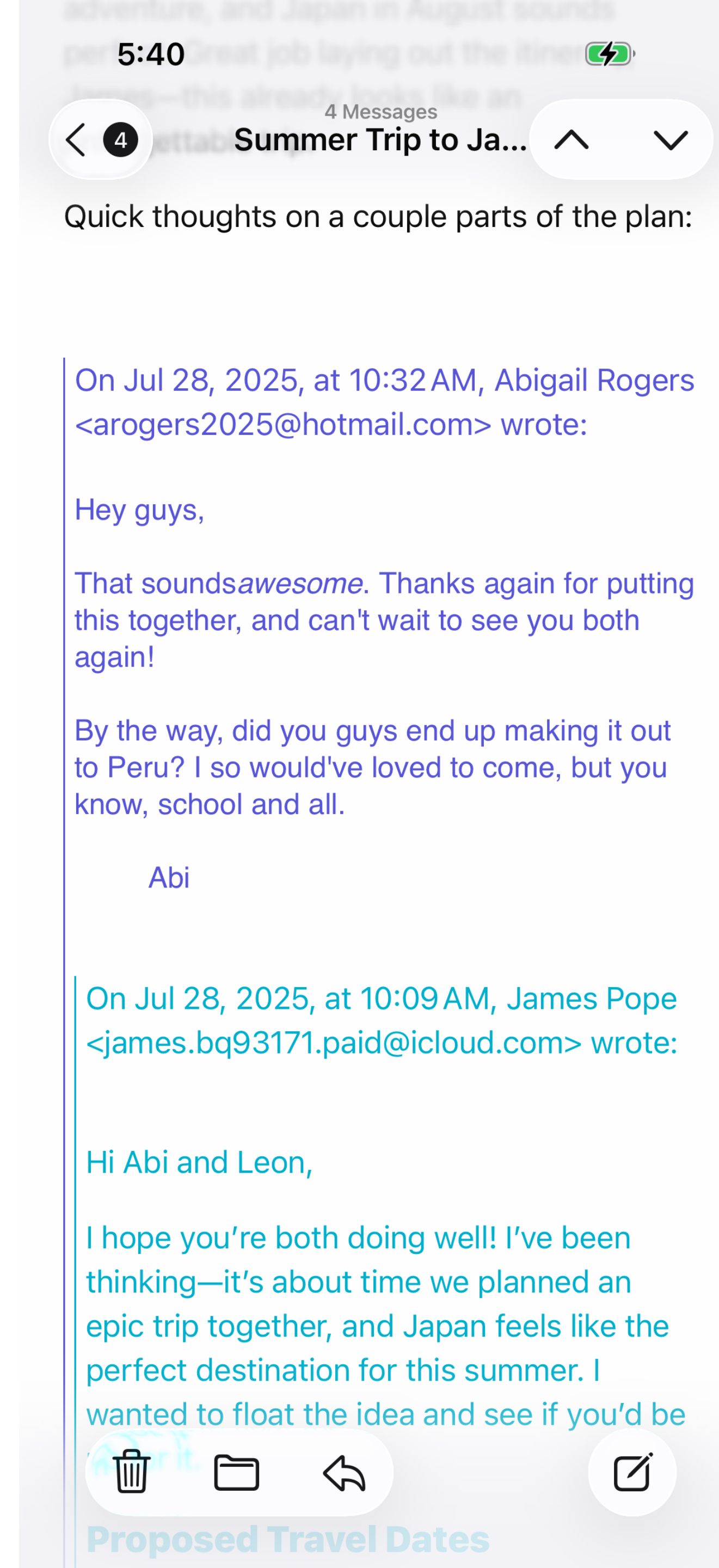
- Partial representation
- JSON-LD objects:
 - **EmailMessage** (properties: sender, toRecipient, dateReceived, about (subject), etc.)
 - **QuotedContent** (properties: **message**, **headerBlock/attribution**, **content**)
 - **QuotedHeaderBlock** (properties: **header**)
 - **QuotedHeader** (properties: label, **value**)
 - **QuoteAttribution** (properties: **date**, **from**)
 - **TextContent**
 - Preamble*
 - AttachmentContent*

Visualized

- EmailMessage
- QuotedContent
- QuotedHeaderBlock
- QuotedHeader
- QuoteAttribution
- TextContent

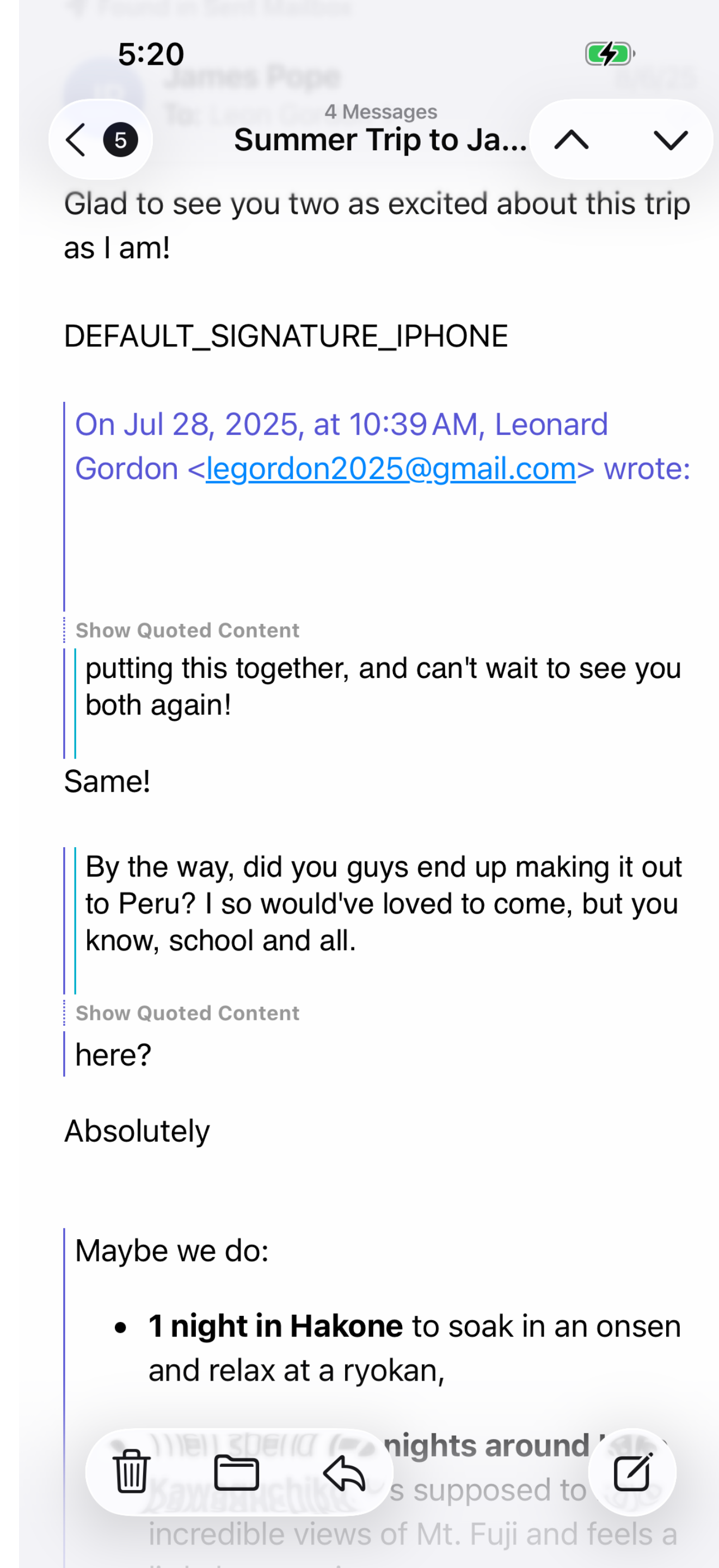
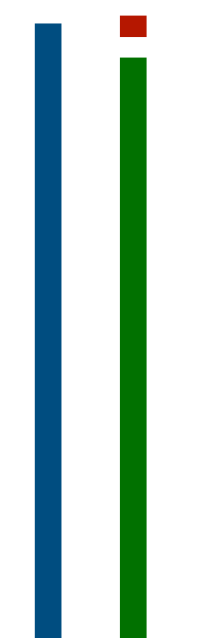
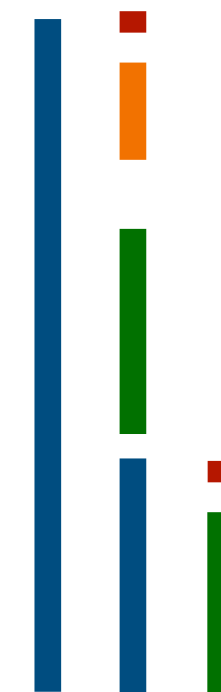


Result



Another example

- EmailMessage
- QuotedContent
- QuotedHeaderBlock
- QuotedHeader
- QuoteAttribution
- TextContent



Open Questions

- Plain text?
 - Maybe reference line number + byte range in JSON-LD?
- Back-reference to content in original message?
- Separate JSON-LD part or embedded in HTML?
- Attachments?